

PC CAT NP50 Catalyst Pentamethyldipropylenetriamine

Overview:

PC CAT NP50 is a tertiary amine-based foaming catalyst that facilitates the urea (water-isocyanate) reaction in a variety of rigid and flexible polyurethane foam applications. It is the industry standard foaming catalyst for flexible foams and is used in TDI-based flexible foam systems such as mattresses, seats and automobiles. It is also used in combination with trimer catalysts in PIR laminate formulations. PC CAT NP50 is also used in MDI, TDI/MDI, MDI high resiliency (HR) flexible molded foams, and self-crusting and microcellular systems. It has a shelf life of 36 months.

CAS No.

PC CAT NP50 . This is the unique identifier for PC CAT NP50 and is used to track and identify it throughout the supply chain. the CAS number is also used to search for information about PC CAT NP50 in databases and other resources.

Product Name: N,N,N,N,N-Pentamethyldipropylenetriamine

Alias: Pentamethyldipropylenetriamine

Molecular formula: C₁₁H₂₇N₃

Molecular weight: 201.4

CAS No.: 3855-32-1

Some other company product code: POLYCAT 77; JEFFCAT ZR-40; PC CAT NP50; Toyocay PMA

Physical and chemical properties

Appearance: colorless transparent liquid at room temperature, with ammonia odor, easily soluble in water

Relative density: 0.83

Boiling point: 227°C

Flash point: 92°C.

Characteristics and Applications

Pentamethyldiethylenetriamine is a low odor foam/gel balance catalyst, which can be used in polyether type polyurethane soft foam, polyurethane hard foam and coating adhesive, especially for cold molding HR foam. It has good open cell properties and has excellent performance in Maxfoam foam process formulations for block foams.

Physical and chemical properties

The physicochemical properties of PC CAT NP50 are shown in the following table:

Properties	Value
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Appearance	Transparent colorless liquid
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Odor	Slight ammonia odor
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Specific gravity	1.040
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Boiling point 200°C

Flash point 100°C

Water solubility Miscible

Solubility in organic solvents Miscible

Characteristics

- Promotes urea (water-isocyanate) reaction

- Used in a variety of rigid and flexible polyurethane foam applications

- Industry standard foaming catalyst for flexible foams

- for TDI-based flexible foam systems such as mattresses, seats and automobiles

- is used in combination with trimer catalysts in PIR laminate formulations

- is also used in MDI, TDI/MDI, MDI high resiliency (HR) flexible molded foams as well as self-crusting and microcellular systems

- has a shelf life of 36 months

Applications

- flexible polyurethane foams

- cast-in-place polyurethane systems

- PIR laminated paperboard

- TDI, TDI/MDI, MDI High Resilience (HR) Flexible Molded Foam

- Self-crusting foam

- microcellular foam

Advantages

- promotes urea (water-isocyanate) reaction

- for a variety of rigid and flexible polyurethane foam applications

- Industry standard foaming catalyst for flexible foams

- can be used in combination with trimer catalysts

- has a shelf life of 36 months

Disadvantages

- is corrosive to some metals

- can have a strong odor

- can be flammable



Package

Packed in clean, dry, sealed and leak-free special plastic drums with a net weight of 20kg/25kg/180kg per drum.

Storage and transportation

When transporting Catalyst, it should be strictly protected from rain and staining, carefully and gently stored to prevent leakage from collision with hard objects. When storing Catalyst, it should be stored at room temperature in a ventilated and dry warehouse, avoiding humid environment, and the storage temperature should be kept below 25°C, avoiding sunlight as much as possible, and away from water and heat sources. To prevent moisture absorption and oxidation, it is recommended to fill the container with nitrogen.

Shelf life

Under proper storage conditions, the shelf life is 6 months from the date of manufacture, after which the product can be used after retesting.

Safety Information

Catalyst is somewhat toxic and should be rinsed with soapy water promptly after contact with skin. Staff can wear eye protection or safety glasses for the purpose of eye protection. Eye wash and drenching equipment should be provided near the workplace. When working in places where contact with the product is possible, attention should be paid to personal hygiene and the skin in contact with the product should be washed with washing products before

eating, smoking and leaving the workplace.

Leak handling

Stop spills as much as possible while ensuring safety. If a minor spill is found, treat it with sand or other absorbent material and place it in a clean, dry container for subsequent disposal. If a large spill occurs, the spilled material should be collected for subsequent disposal. Avoid entering groundwater or surface water as the material is not readily biodegradable. All collected spilled material should be disposed of in accordance with local environmental regulations.

Disclaimers

The information and technical advice provided above has been obtained from our reliable sources, however, we make no express or implied warranties with respect to the data provided and make no promises herein. If our products are to be used, we recommend that they undergo a series of tests. The application, use, processing or production of products based on the technical information provided by us is beyond our control and therefore these responsibilities are the responsibility of the user. The condition and method of handling, storage, use or disposal of this product is beyond our control and may be beyond our knowledge, and in no event will we be liable for loss, damage or costs associated with the improper handling, storage, use or disposal of this chemical. For more information, please review the technical safety sheets for our products or contact our marketing services department.

Uses:

Promotes the reaction of hydroxyl functional groups with NCO

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Shelf life.

Keep unopened,two years

Storage and transportation:

Should be kept sealed and stored in a dry, cool and ventilated warehouse

Packaging:

200KG/drum Storage: It is recommended to store in dry and cool area with proper ventilation. Please fasten the lid as soon as possible after the original packaging to prevent the mixing of

other substances such as water and other substances from affecting the product performance. Do not inhale dust and avoid skin and mucous membrane contact. Smoking, eating and drinking are prohibited in the workplace. After work, shower and change clothes. Store contaminated clothes separately and wash them before use. Maintain good hygiene habits.

Technical support and business contacts E-mail: info@newtopchem.com